Technical Data Sheet

ECOFLEX 1.5 ADH

Synthetic Membrane

1.	**Description**	Ecoflex 1.5 ADH is a lightweight, flexible PVC-p single ply synthetic membrane with polyester mesh reinforcement and non-woven polyester fleece backing of 300g/m^2. It is available in dark grey (RAL 7043).
2.	**Use**	Roof waterproofing, suitable for new build or refurbishment projects, in fully-adhered exposed, loose-laid and ballasted, inverted, roof garden and living roof specifications.
3.	**Properties**	Ecoflex systems provide excellent mechanical properties and resistance to wind stress, puncturing, hot/cold cycles, weathering and UV rays. However, the membrane is not resistant to bitumen. It is easily welded by hot air and has excellent flexibility at low temperatures. Ecoflex PVC roof waterproofing membranes are manufactured to ISO 9001 and ISO 14001.
4.	**Application method**	Ecoflex 1.5 ADH is fully bonded with Axter ADH membrane adhesive. Installation must be carried out by Axter accredited skilled operatives. The roof deck must be smooth, clean and free of sharp edges or foreign substances. All Ecoflex membranes should not be installed in wet weather conditions or in temperatures below 5˚C. When installing over an uneven surface or to eliminate direct contact between the Ecoflex ADH membrane and oil based products, such as bitumen membranes, a suitable separation layer should be installed (ECO/200 PY Separation Layer). The Ecoflex ADH membrane is fully adhered to the substrate with Axter ADH Adhesive or is loose laid. Side and end laps are sealed by the hot air welding technique. Hot air welding techniques can be adapted to suit the specific climatic conditions at the time of installation to ensure a secure weld is achieved at all times.
5.	**Storage**	Rolls to be stored horizontally and parallel (never crossed) in original packaging in a dry, cool place.

Characteristics		Standard (BS)	Units	Values
Dimensions	Length	BS EN 1848-2	m	≥20
	Width	BS EN 1848-2	m	≥2.10
	Thickness	BS EN 1849-2	mm	1.50
	Mass per unit area	BS EN 1849-2	kg/m^2	2.25
Maximum tensile force (L x T)		BS EN 12311-2	N/50mm	≥1000
Elongation at maximum tensile force (L x T)		BS EN 12311-2	%	≥40
Resistance to static loading		BS EN 12730-B	kg	≥20
Tear resistance		BS EN 12310-2	N	≥250
Impact resistance (on a rigid support)		BS EN 12691-A	mm	≥800*
Dimensional stability		BS EN 1107-2	%	≤1.0
Resistance to artificial weathering		BS EN 1297	-	Grade 0
Watertightness		EN1928	-	Waterproof
Resistance to root penetration		EN13948	-	Conform
Reaction to fire		EN ISO 11925-2/EN 13501-1	Class	E

*Rupture outside joint.

For information on safety, please consult the Safety Data Sheet (SDS) for this product. Contact Axter Ltd for further information.

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